Application No.	Applicant(s)	
09/538 030	TURLEY ET AL	
Examiner	Art Unit	
Dai A. Phuong	2685	
ars on the cover sheet with OR REMAINS) CLOSED in or other appropriate commu	th the correspondence address this application. If not included inication will be mailed in due course. T	*HIS nitiative
been received. been received in Applicatio uments have been received of this communication to file ENT of this application. tted. Note the attached EXA is reason(s) why the oath or	n No I in this national stage application from a reply complying with the requirement	ts
	(PTO-048) attached	
ons ratent Drawing Neview	(F10-940) attached	
Amendment / Comment or	in the Office action of	
IT OF BIOLOGICAL MATE OR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the pLOGICAL MATERIAL.	
6. ☐ Interview St Paper No./ 7. ☐ Examiner's 8. ☑ Examiner's	Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	
	Dai A. Phuong ars on the cover sheet with OR REMAINS) CLOSED in or other appropriate communication is sand MPEP 1308. der 35 U.S.C. § 119(a)-(d) of the description of the description of the energy of this communication to file entry of this application. ted. Note the attached EXA is reason(s) why the oath or be submitted. on's Patent Drawing Review. Amendment / Comment or B4(c)) should be written on the header according to 37 CF it of BIOLOGICAL MATE OR THE DEPOSIT OF BIOCEST, and it of BIOLOGICAL MATE OR THE DEPOSIT OF BIOCEST, and it of BIOLOGICAL MATE OR THE DEPOSIT OF BIOCEST, and it of BIOLOGICAL MATE OR THE DEPOSIT OF BIOCEST, and it of BIOLOGICAL MATE OR THE DEPOSIT OF BIOCEST, and it is a submitted. 5. \(\subseteq \text{ Notice of Info 6. } \subseteq Interview Supaper No.////////////////////////////////////	Dai A. Phuong 2685 ars on the cover sheet with the correspondence address-OR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. The application is subject to withdrawal from issue at the inand MPEP 1308. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No uments have been received in this national stage application from fit is application. of this communication to file a reply complying with the requirement enternance. The attached EXAMINER'S AMENDMENT or NOTICE Cost reason(s) why the oath or declaration is deficient. be submitted. on's Patent Drawing Review (PTO-948) attached Amendment / Comment or in the Office action of the address according to 37 CFR 1.121(d). it of BIOLOGICAL MATERIAL must be submitted. Note the OR THE DEPOSIT OF BIOLOGICAL MATERIAL. 5. Notice of Informal Patent Application (PTO-152) Paper No./Mail Date

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowed:

Claims 1-10 are allowed.

Regarding claim 1, the prior art record does not disclose nor fairly suggest a switch matrix for coupling an uplink beam to a demodulator, comprising: an input module, the input module having a plurality of inputs at least equal to a number of cells in frequency reuse pattern, the inputs receiving at least one uplink beam, and a plurality of outputs, the plurality of outputs at least equal to a number of subband in the uplink beam, wherein the input module comprise at least one power splitter, wherein a number of power splitter is at least equal to the number of cells in the frequency reuse pattern, wherein each power splitter splits each input into a plurality of substantially equal power outputs, a number of power outputs at least equal to the number of subbands; and an output module, the output module coupled to the input module, for selectively coupling the outputs from the input module to an output of the output module, the output of the output module coupled to a demodulator thereto.

Regarding claim 6, the prior art record does not disclose nor fairly suggest a switch matrix for coupling an uplink beam to a demodulator in a satellite system, wherein the satellite system receives input from cells in a cell pattern, comprising: (a) a plurality of input modules, each having a plurality of inputs at least equal to a number of cell in a reuse pattern for the satellite system, each input module comprising:(1) a plurality of power splitters, wherein the plurality of power splitters is at least equal to the number of cells in the reuse pattern for the satellite system, wherein each power splitters spits each input into a plurality of substantially equal power outputs, a number of power outputs at least equal to a number of

Art Unit: 2685

subbands used by the satellite system; and (2) a plurality of witch modules, coupled to the plurality of power splitters, each switch module accepting a plurality of inputs at least equal to the number of cells in the reuse pattern for the satellite system, the plurality of witch modules at least equal to the number of subbands used by the satellite system; and (b) a plurality of output modules, coupled to the input modules through the plurality of the switch module, each having a plurality of inputs at least to the number of cells in the cell pattern, comprising:(1) a first set of output matrices, each output matrix in the first set of output matrices having a plurality of inputs at least equal to the number of subbands used by the satellite system; and (2) a second set of output matrices, coupled to the first set of output matrices, each output matrix in the second set of output matrices having a plurality of outputs at least equal to a number of demodulators used by the satellite system in each subband.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dai A Phuong whose telephone number is 571-272-7896. The examiner can normally be reached on Monday to Friday, 9:00 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 703-305-4385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/538,030

Art Unit: 2685

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dai Phuong AU: 2685

Date: 09-15-2005

EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Page 4